

# Supplementary - SARS-CoV-2 Transmission Dynamics in Households with Children, Los Angeles, California

**Supplemental Table 1.** Laboratory-confirmed index cases per time period, according to age group. Children index cases were more frequent during periods of lower COVID-19 community transmission compared to the period of very high community transmission levels. ( $p=0.018$  if compare all 3 periods,  $p=0.006$  if compare Period 1 and 2 vs. 3). The periods were determined by the epidemic curve shown in Figure 1.

Age group (years)	Period 1 June (start of study) to August 31, 2020	Period 2 September 1 to October 31, 2020	Period 3 November 1 to December 31, 2020
<12	16 (36.4)	8 (21.1)	14 (25.9)
12-17	9 (20.5)	2 (13.3)	4 (7.4)
18-29	4 (9.1)	1 (6.7)	16 (29.6)
30-54	12 (27.3)	4 (26.7)	18 (33.3)
$\geq 55$	3 (6.8)	0 (0)	2 (3.7)
Total	44 (38.9)	15 (13.3)	54 (47.8)

**Supplemental Table 2.** Sensitivity analysis of the household secondary attack rate (SAR) after reclassification of cases with onset within 1 to 5 days of the original index case within the household to account for the possibility of misclassification of index cases.

	Households with known infection order based on symptoms and PCR testing	Reclassify cases within 1 day of original index as index	Reclassify cases within 2 days of original index as index	Reclassify cases within 3 days of original index as index	Reclassify cases within 4 days of original index as index	Reclassify cases within 5 days of original index as index
# Households	83	83	83	83	83	83
# Index cases	113	143	165	184	201	219
Household SAR, % (95% CI)	77.0 (69.4-84.6)	74.5 (66.3-82.7)	71.1 (61.9-80.4)	68.4 (58.6-78.3)	65.9 (55.3-76.5)	63.7 (52.7-74.6)